

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Heinz Willebrand *et al.*

Application No.: To be assigned

Filed: May 5, 2004

For: HYBRID WIRELESS OPTICAL
AND RADIO FREQUENCY
COMMUNICATION LINK

Group Art Unit: To be assigned

Examiner: To be assigned

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper is being deposited with the United States Postal Service via Express Mail, Express Mail Label No.: EV 410721649 US, in an envelope addressed to: MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

May 5, 2004

Date



Sara R. Hart

INFORMATION DISCLOSURE STATEMENT

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is submitted:

Under 37 CFR §1.97(b) before the mailing date of a first Office Action on the merits.

Under 37 CFR §1.97(c) together with either:

a statement under 37 CFR §1.97(e), or

a fee under 37 CFR §1.17(p)

(after the 37 CFR §1.97(b) time period, but before the mailing date of a final Action, a Notice of Allowance, or an action that otherwise closes prosecution).

In accordance with the duty of disclosure imposed by 37 CFR § 1.56 to inform the Patent Office of all patents, publications, applications and other information known by Applicants or Applicants' representative that may be material to the examination of the subject application,

Information Disclosure Statement

Applicants' representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 CFR §§ 1.97-1.98 and includes Form PTO-1449 with one hundred forty-nine (149) references listed as items AA-FS.

Copies of the items listed on the attached Form PTO-1449 are provided pursuant to 37 C.F.R. § 1.98 (a) (2), except that copies of those items which are marked with an "X" in the attached Form PTO-1449 are not supplied because they were previously cited by or submitted to the U.S. Patent Office in a prior Application No. 09/482,782, filed January 13, 2000, which is relied upon in this application for an earlier effective filing date under 35 U.S.C. § 120. See 37 C.F.R. § 1.98 (d).

Concise Explanation of Relevance:

Item EJ is a "PCT International Search Report" issued over a PCT Patent Application which claims priority to U.S. Application No. 09/835,866, and which was mailed on July 30, 2002 from a foreign patent office. Item EJ refers to references (in relation to the PCT application for the '866 application) disclosed in Information Disclosure Statements previously submitted in U.S. Application No. 09/482,782.

Item EK is a "PCT International Preliminary Examination Report" issued over the PCT Patent Application which corresponds to U.S. Application 09/482,782 and which was mailed from a foreign patent office on April 29, 2002.

Item EM is a "PCT International Search Report" issued over a corresponding PCT Patent Application to U.S. Application No. 09/482,782 and which was mailed from a foreign patent office on February 6, 2002. It refers to references that have previously been made of record in U.S. Application No. 09/482,782.

Item EI listed on the Form PTO-1449 is not in the English language. It is a Search Report issued by the Hungarian Patent Office for a counterpart Hungarian application to U.S. Application No. 09/482,782, which cites item DR.

Items ED, EH, FB, FC and FI, listed on the Form PTO-1449, are not in the English language. An English-language translation of each of these items has been provided in Information Disclosure Statements previously submitted in U.S. Application No. 09/482,782, which is relied upon in this application for an earlier effective filing date under 35 U.S.C. § 120.

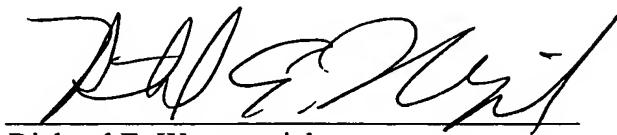
Information Disclosure Statement

It is requested that the information provided herein be made of record in this application.

Respectfully submitted,

Dated:

5/5/04



Richard E. Wawrzyniak
Attorney for Applicant(s)
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Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Application No.	To be assigned
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		First Named Inventor	Heinz Willebrand <i>et al.</i>
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U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD- YYYY)	CLASS	SUB CLASS	FILING DATE (if appropriate)
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	AA	X	2002/0149811	A1	Willebrand	10/17/2002			04/16/2001
	AB	X	2002/0141020	A1	Doucet et al.	10/03/2002			05/28/2002
	AC	X	2002/0122232	A1	Doucet et al.	09/05/2002			01/22/2002
	AD	X	2002/0122230	A1	Izadpanah et al.	09/05/2002			03/05/2001
	AE	X	2002/0075542	A1	Kumar et al.	06/20/2002			12/17/2002
	AF	X	2002/0054413	A1	Shivnan	05/09/2002			09/07/2001
	AG	X	2002/0054411	A1	Heminger et al.	05/09/2002			08/27/2001
	AH	X	2002/0051269	A1	Margalit et al.	05/02/2002			09/28/2001
	AI	X	2002/0048066	A1	Antoniades et al.	04/25/2002			05/15/2001
	AJ	X	2002/0028043	A1	Medved et al.	03/07/2002			11/02/2001
	AK	X	2002/0027691	A1	Medved et al.	03/07/2002			11/02/2001
	AL	X	2002/0005972	A1	Bloom et al.	01/17/2002			05/16/2001
	AM	X	60/276,610		Shah et al.				03/16/2001
	AN	X	60/256,540		Gupta et al.				12/18/2000
	AO	X	6,587,687	B1	Wiedeman	07/01/2003			10/21/1996
	AP	X	6,583,904	B1	Mahlab et al.	06/24/2003			10/01/1999
	AQ	X	6,509,992	B1	Goodwill	01/21/2003			09/09/1999
	AR	X	6,493,121	B1	Althaus	12/10/2002			10/30/2000
	AS	X	6,462,847	B2	Willebrand	10/08/2002			03/29/2001
	AT	X	6,452,700	B1	Mays, Jr.	09/17/2002			06/19/2001

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	AU	X	6,411,414	B1	Abate <i>et al.</i>	06/25/2002			11/19/1998
	AV	X	6,398,425	B2	Williams <i>et al.</i>	06/04/2002			05/09/2001
	AW	X	6,396,612	B1	Bjorndahl	05/28/2002			02/11/1998
	AX	X	6,381,055	B1	Javitt <i>et al.</i>	04/30/2002			04/16/1998
	AY	X	6,366,723	B1	Medved <i>et al.</i>	04/02/2002			09/14/1999
	AZ	X	6,348,986	B1	Doucet <i>et al.</i>	02/19/2002			06/29/1998
	BA	X	6,323,980	B1	Bloom	11/27/2001			03/05/1998
	BB	X	6,301,037	B1	Fischer <i>et al.</i>	10/09/2001			03/06/1998
	BC	X	6,288,813	B1	Kirkpatrick <i>et al.</i>	09/11/2001			03/25/1998
	BD	X	6,285,481	B1	Palmer	09/04/2001			09/05/1997
	BE	X	6,272,271	B1	Wojnarowksi <i>et al.</i>	08/07/2001			04/29/1999
	BF	X	6,239,888	B1	Willebrand	05/29/2001			04/24/1998
	BG	X	6,141,128		Korevaar <i>et al.</i>	10/31/2000			12/15/1997
	BH	X	6,122,084		Britz <i>et al.</i>	09/19/2000			03/03/1998
	BI	X	6,115,157		Barnard <i>et al.</i>	09/05/2000			12/24/1997
	BJ	X	6,104,513		Bloom	08/15/2000			03/05/1998
	BK	X	6,049,593		Acampora	04/11/2000			12/19/1997
	BL	X	6,043,918		Bozzay <i>et al.</i>	03/28/2000			12/12/1997
	BM	X	6,016,212		Durant <i>et al.</i>	10/18/2000			04/30/1997
	BN	X	6,014,236		Flaherty	01/11/2000			02/04/1997

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	BO	X	5,995,253		Flaherty	11/30/1999			02/04/1997
	BP	X	5,983,068		Tomich et al.	11/09/1999			02/29/1996
	BQ	X	5,978,118		Flaherty	11/02/1999			02/04/1997
	BR	X	5,966,229		Dodley et al.	10/12/1999			06/18/1997
	BS	X	5,949,564		Wake	09/07/1999			04/26/1993
	BT	X	5,949,563		Takada	09/07/1999			07/18/1997
	BU	X	5,946,120		Chen	08/31/1999			05/30/1997
	BV	X	5,936,578		Driessen et al.	08/10/1999			12/29/1995
	BW	X	5,917,629		Hortensius et al.	06/29/1999			10/29/1990
	BX	X	5,883,730		Coult et al.	03/16/1999			12/29/1995
	BY	X	5,859,725		Sugiya et al.	01/12/1999			08/22/1997
	BZ	X	5,844,705		Rutledge	12/01/1998			02/13/1997
	CA	X	5,838,470		Radehaus et al.	11/17/1998			06/04/1997
	CB	X	5,818,984		Ahmad et al.	10/06/1998			11/18/1996
	CC	X	5,818,619		Medved et al.	10/06/1998			06/13/1996
	CD	X	5,790,286		Bae	08/04/1998			10/28/1996
	CE	X	5,786,923		Doucet et al.	07/28/1998			03/29/1996
	CF	X	5,777,768		Korevaar	07/07/1998			08/29/1996
	CG	X	5,748,813		Cassidy et al.	05/05/1998			07/28/1993
	CH	X	Re. 35,736		Powell	02/24/1998			11/23/1994
	CI	X	5,710,652		Bloom et al.	01/20/1998			02/22/1994

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	CJ	X	5,661,582		Kintis et al.	08/26/1997			10/26/1995
	CK	X	5,659,413		Carlson	08/19/1997			02/28/1995
	CL	X	5,654,816		Fishman	08/05/1997			06/06/1996
	CM	X	5,596,661		Henry et al.	01/21/1997			12/28/1994
	CN	X	5,587,830		Chraplyvy et al.	12/24/1996			05/28/1993
	CO	X	5,585,953		Zavrel	12/17/1996			08/13/1993
	CP	X	5,574,589		Feuer et al.	11/12/1996			01/09/1995
	CQ	X	5,548,772		Lin et al.	08/20/1996			10/14/1994
	CR	X	5,526,161		Suzuki et al.	06/11/1996			06/20/1994
	CS	X	5,475,520		Wissinger	12/12/1995			06/22/1994
	CT	X	5,457,562		Tremblay	10/10/1995			05/20/1994
	CU	X	5,452,124		Baker	09/19/1995			03/04/1994
	CV	X	5,448,391		Iriyama et al.	09/05/1995			06/29/1993
	CW	X	5,443,227		Hsu	08/22/1995			10/15/1993
	CX	X	5,416,864		Cassidy et al.	05/16/1995			04/30/1993
	CY	X	5,416,861		Koh et al.	05/16/1995			04/29/1994
	CZ	X	5,416,627		Wilmoth	05/16/1995			04/24/1992
	DA	X	5,400,166		Huber	03/21/1995			10/20/1992
	DB	X	5,390,040		Mayeux	02/14/1995			02/04/1994
	DC	X	5,371,734		Fischer	12/06/1994			01/29/1993
	DD	X	5,331,449		Hubert et al.	07/19/1994			03/15/1993

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	DE	X	5,329,576		Handforth	07/12/1994			04/29/1992
	DF	X	5,321,718		Waarts et al.	06/14/1994			01/28/1993
	DG	X	5,301,054		Huber et al.	04/04/1994			01/14/1993
	DH	X	5,280,184		Jokerst et al.	01/18/1994			04/08/1992
	DI	X	5,247,381		Olmstead et al.	09/21/1993			05/20/1992
	DJ	X	5,227,906		Tokumitsu	07/13/1993			03/08/1990
	DK	X	5,218,467		Ross et al.	06/08/1993			12/28/1990
	DL	X	5,210,631		Huber et al.	05/11/1993			12/22/1989
	DM	X	5,185,814		Healey	02/09/1993			02/20/1992
	DN	X	5,142,400		Solinsky	08/25/1992			05/28/1991
	DO	X	5,083,874		Aida et al.	01/28/1992			04/10/1990
	DP	X	5,068,916		Harrison et al.	11/26/1991			10/29/1990
	DQ	X	5,060,303		Wilmoth	10/22/1991			09/06/1988
	DR	X	5,034,997		Iwasaki	07/23/1991			04/18/1989
	DS	X	5,005,937		Aida et al.	04/09/1991			04/10/1990
	DT	X	4,916,460		Powell	04/10/1990			09/29/1988
	DU	X	4,807,222		Amitay	02/21/1989			08/25/1986
	DV	X	4,689,482		Horikawa et al.	08/25/1987			06/13/1985
	DW	X	4,330,870		Arends	05/18/1982			09/05/1980

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FOREIGN PATENT DOCUMENTS										
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	FOREIGN PATENT DOCUMENT			DATE OF PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	TRANSLATION	
			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
	DX	X	WO	01/52450	A2	07/19/2001				
	DY	X	WO	00/54413		09/14/2000				
	DZ	X	WO	00/16489		03/23/2000				
	EA	X	WO	00/08783		02/17/2000				
	EB	X	WO	98/32250		07/23/1998				
	EC	X	EP	0 378 148	B1	04/10/1996				
	ED	X	DE	44 33 896	C1	11/09/1995			X	
	EE	X	GB	2 257 321	A	01/06/1993				
	EF	X	EP	0 513 993	A2	11/19/1992				
	EG	X	GB	2 221 810	A	02/14/1990				
	EH	X	JP	S63-215125		07/07/1988			X	

OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS				
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.	
	EI	X	HUNGARIAN PATENT OFFICE, Search Report for Hungarian National Phase of PCT/US00/35198, which claims priority to U.S. App. 09/482,782; dated 15 January 2003; pp. 1-3.	
	EJ	X	PCT INTERNATIONAL SEARCH AUTHORITY; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US02/10075 which claims priority to U.S. Application No. 09/835,866; mailed 30 July 2002; (4 pages).	

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	EK	X	PCT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed 29 April 2002; (13 pages).
	EL	X	EUROPEAN PATENT OFFICE; PCT International Preliminary Examination Report issued in the counterpart PCT application for U.S. Application No. 09/482,782; date of mailing 29 April 2002; (13 pages).
	EM	X	PCT INTERNATIONAL SEARCH AUTHORITY; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed 06 February 2002; (7 pages).
	EN	X	NASA JET PROPULSION LABORATORY; "Multiple-Beam Transmission for Optical Communication"; http://www.nasatech.com/Briefs/Nov98/NPO20384.html ; October 26, 2001; pp. 1-2.
	EO	X	G. NYKOLAK et al.; "A 40 Gb/S DWDM Free Space Optical Transmission Link Over 4.4 km"; In Free-Space Laser Communication Technologies XII; <i>Proceeding of SPIE</i> ; Vol. 3932; 2000; pp. 16-20.
	EP	X	P. F. SZAJOWSKI et al.; "Key Elements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; In Free-Space Laser Communication Technologies XII; <i>Proceedings of SPIE</i> ; Vol. 3932; 2000; pp. 2-14.
	EQ	X	G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km free-space optical communications link: availability and scintillation performance; Part of the SPIE Conference on Optical Wireless Communications II; <i>SPIE</i> ; Vol. 3850; September 1999; pp. 11-19.
	ER	X	P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enable 1550 nm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; Part of the SPIE Conference on Optical Wireless Communications II; <i>SPIE</i> ; Vol. 3850; September 1999; pp. 2-10.
	ES	X	P. S. GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; <i>Computer, IEEE</i> ; February 1998; pp. 66-75.

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	ET	X	S. HOLLUNG <i>et al.</i> ; A Bi-Directional Quasi-Optical Lens Amplifier; <i>IEEE Transactions on Microwave Theory and Techniques</i> ; Vol. 45, No. 12; December 1997; pp. 2352-2357.
	EU	X	I. I. KIM <i>et al.</i> ; Scintillation Reduction Using Multiple Transmitters"; <i>Society of Photo-Optical Instrumentation Engineers</i> ; Vol. 2990; 1997; pp. 102-113.
	EV	X	A. LOURI <i>et al.</i> ; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; <i>Applied Optics</i> ; Vol. 35; No. 8; March 10, 1996; pp. 1296-1308.
	EW	X	SCHUSTER <i>et al.</i> , "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/slant gimbal"; <i>SPIE - the International Society for Optical Engineering</i> ; Society of Photo-Optical Instrumentation Engineers, Washington, USA; Vol. 2699; January 30-31, 1996, pgs. 227-239.
	EX	X	WILSON <i>et al.</i> , "Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment Between Table Mountain and the ETS-VI Satellite"; <i>SPIE - the International Society for Optical Engineering</i> ; Vol. 2699; Society of Photo-Optical Instrumentation Engineers, Washington, USA; 1996; pp. 121-132.
	EY	X	A. BELMONTE <i>et al.</i> ; "Performance of a Multiple-Aperture Optical System"; <i>Society of Photo-Optical Instrumentation Engineer</i> ; Vol. 2699; 1996; pp. 316-326.
	EZ	X	K. KIMURA <i>et al.</i> ; "Global Satellite communication network using double-layered inclined orbit constellation with optical inter-satellite links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; <i>SPIE</i> ; Vol. 2699; 1996; pp. 12-23.
	FA	X	C. M. STICKLEY <i>et al.</i> ; "Demonstration of an Adaptive, Coherent-Combining Laser Radar Receiver"; <i>18th International Laser Radar Conference</i> ; 1996; pp. 247-250.
	FB	X	KUBE; "Renaissance Eines Alten Konzepts"; <i>Nachrichten Elektronik und Telematik</i> ; Vol. 49; No. 5; May 1995; pp. 15, 16 and 18. (English translation provided.)
	FC	X	TELECONNECT GmbH; "Optische Freiraum-Übertragungssysteme"; Teleconnect Verbindungen in die Zukunft; Produktinformation; April 1995; pp. 1-16. (English translation provided.)

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		First Named Inventor	Heinz Willebrand <i>et al.</i>
		Group Art Unit	To be assigned
		Examiner Name	To be assigned
		Sheet 9 of 10	Attorney Docket No.

OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.
	FD	X	CBL - Communication by Light, Gesellschaft für optische Kommunikationssysteme mbH; "Optical Links, Network connection directly through the atmosphere"; March 1995; pp. 1-8.
	FE	X	K. KIMURA et al.; "Satellite constellation of low earth orbit (LEO) satellite global communication network using optical inter-satellite links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; <i>SPIE</i> ; Vol. 2381; 1995; pp. 48-59.
	FF	X	E. KOREVAAR et al.; "Design of satellite terminal for BMDO lasercom technology demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> ; Vol. 2381; February 7-8, 1995, pp. 59-71.
	FG	X	LIGHTPOINTE COMMUNICATIONS, INC.; "Complex Networking Connectivity Example: Allianz Insurance Germany"; 1995; p. 1.
	FH	X	A. S. ACAMPORA et al.; "The Scalable Lightwave Network"; <i>IEEE Communications Magazine</i> ; December 1994; pp. 36-42.
	FI	X	G. TURINSKY; "Kabellose Übertragung von Digital-Audio- und Videosignalen"; Praxis; <i>RFE</i> ; March 1994; pp. 33-34. (English translation provided.)
	FJ	X	K. H. KUDIELKA et al.; "Experimental verification of an adaptive optical multi-aperture receive antenna for laser space communications"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; 1994; pp. 478-486.
	FK	X	C. A. BRACKETT et al; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; <i>Journal of Lightwave Technology</i> , Vol. 11, No. 5-6; May-June 1993; pp. 736-753.
	FL	X	KOREVAAR et al., Status of BMDO/IST Lasercom Advanced Technology Demonstration, <i>SPIE-The International Society for Optical Engineering</i> ; Society of Photo-Optical Instrumentation Engineers, Washington, USA; Vol. 2123; 1994; pp. 96-107.
	FM	X	KOREVAAR et al., Status of SDIO/IS&T Lasercom Testbed Program, <i>SPIE-The International Society for Optical Engineering</i> ; Society of Photo-Optical Instrumentation Engineers, Washington, USA; Vol. 1866; January 20-21, 1993; pp. 116-127.
	FN	X	TELECONNECT GmbH; "Installation Mittweida 1993" (digitized photograph copies); 1993; pp. 1-2.

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	FO	X	J. H. CHURNSIDE: "Aperture Averaging of Optical Scintillations in the Turbulent Atmosphere"; <i>Applied Optics</i> , Vol. 30, No. 15; May 20, 1991; pp. 1982-1994.
	FP	X	W. M. BRUNO et al.; "Diode Laser Spatial Diversity Transmitter"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 1044; 1989; pp. 187-194.
	FQ	X	J. SHAMIR et al.; "Diversity Methods for Fading Control"; <i>Applied Optics</i> ; Vol. 27, No. 8; April 15, 1988; pp. 1389-1391.
	FR	X	A. S. ACAMPORA; "A Multichannel Multihop Local Lightwave Network"; <i>GLOBECOM '87; IEEE</i> ; 1987; pp. 1459-1467.
	FS	X	D. L. FRIED; "Aperture Averaging of Scintillation"; <i>Journal of the Optical Society of America</i> , Vol. 57, No. 2; February 1967; pp. 169-175.

Examiner Signature		Date Considered	
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.